

TITLE OF THE INVENTION

DNA ENCODING HUMAN VOLTAGE GATED SODIUM CHANNEL $\beta 1A$
SUBUNIT

5 ABSTRACT OF THE INVENTION

DNAs encoding human voltage gated sodium channel $\beta 1A$ subunit have been cloned and characterized. The recombinant protein is capable of forming biologically active protein. The cDNA's have been expressed in recombinant host cells that produce active recombinant protein. The recombinant protein is also
10 purified from the recombinant host cells. In addition, the recombinant host cells are utilized to establish a method for identifying modulators of the receptor activity, and receptor modulators are identified.